

Amendments to the Claims

Please cancel the following claims:

What is claimed is:

1. (Cancel) A gear-type key switch of a keyboard device, comprising:

a key top;

a holder member;

four gears;

a spring member for providing elastic return force for the key top;

a film circuit board; and

a supporting plate; and wherein

the spring member and the holder member are located above the supporting plate and below the key top, the film circuit board is located between the supporting plate and the spring member; and wherein

the holder member have four pairs of shafts disposed thereon, said four gears are respectively rotatably assembled to the four pairs of shafts, the key top forms at least four rack supporting members on a bottom thereof; wherein

the at least four rack supporting members are respectively parallel to corresponding gears and engage with corresponding gears to provide the upward and downward movement for the key switch.

2. (Cancel) The gear-type key switch of the keyboard device as claimed in claim 1, wherein the four gears form a quadrangle shape.

3. (Cancel) A gear-type key switch of a keyboard device, comprising:

a key top;

a holder member;

three gears;

a spring member for providing elastic return force to the key top;

a film circuit board; and

a supporting plate; and wherein

the spring member and the holder member are above the supporting plate and below the key top, the film circuit board is located between the supporting plate and the spring member; and wherein

the holder member have three pairs of shafts disposed thereon, said three gears are respectively rotatably assembled to the three pairs of shafts, the key top forms at least three rack supporting members on a bottom thereof; wherein

the at least three rack supporting members are respectively parallel to corresponding gears and engage with corresponding gears to provide the upward and downward movement for the key top.

4. (Cancel) The gear-type key switch of the keyboard device as claimed in claim 3, wherein the three gears form a triangular shape.

5. (Cancel) The gear-type key switch of the keyboard device as claimed in claim 1 or 3, wherein each rack supporting member of the key top forms a restrictive barb on a bottom edge.

6. (Cancel) The gear-type key switch of the keyboard device as claimed in claim 1 or 3, wherein each rack supporting member is capable of being divided into at least two racks.

Please insert the following claims:

7. (New) A gear-type key switch of a keyboard device, comprising:

a key top;

a holder member;

four gears;

a spring member for providing elastic return force for the key top;

a film circuit board; and

a supporting plate; and wherein

the spring member and the holder member are located above the supporting plate and below the key top, the film circuit board is located between the supporting plate and the spring member; and wherein

the holder member have four pairs of shafts disposed thereon, said four gears are respectively rotatably assembled to the four pairs of shafts, the key top forms at least four rack supporting members on a bottom thereof; wherein

the at least four rack supporting members are respectively parallel to corresponding gears and engage with corresponding gears to provide the upward and downward movement for the key switch.

8. (New) The gear-type key switch of the keyboard device as claimed in claim 7, wherein the four gears form a quadrangle shape.

9. (New) The gear-type key switch of the keyboard device as claimed in claim 7, wherein each rack supporting member of the key top forms a restrictive barb on a bottom edge thereof to restrict excessive upward movement of the key top.

10. (New) The gear-type key switch of the keyboard device as claimed in claim 7, wherein each rack supporting member is capable of being divided into at least two racks.

11. (New) The gear-type key switch of the keyboard device as claimed in claim 7, wherein each pair of shafts are arranged face to face corresponding to the length of corresponding gear.

12. (New) The gear-type key switch of the keyboard device as claimed in claim 11, wherein each shaft defines a gear-receiving hole and an opening with dimension smaller than the gear-receiving hole, and wherein each opposite end of the gear is pressed through the opening into the gear-receiving hole.

13. (New) The gear-type key switch of the keyboard device as claimed in claim 7, the adjacent two shafts of different pairs form an angle about 90 degrees therebetween.

14. (New) The gear-type key switch of the keyboard device as claimed in claim 7, the holder member defines a through hole therein, and wherein the spring member partially protrudes through the through hole of the holder member to electrically connect with the film circuit board.

15. (New) The gear-type key switch of the keyboard device as claimed in claim 7, the key top forms a post located in a center of an area circumscribed by the four rack supporting members, and wherein the spring member defines a hole to permit the post of the key top to insert for providing the engagement between the key top and the spring member.

16. (New) A gear-type key switch of a keyboard device, comprising:

a key top;

a holder member;

three gears;

a spring member for providing elastic return force to the key top;

a film circuit board; and

a supporting plate; and wherein

the spring member and the holder member are above the supporting plate and below the key top, the film circuit board is located between the supporting plate and the spring member; and wherein

the holder member have three pairs of shafts disposed thereon, said three gears are respectively rotatably assembled to the three pairs of shafts, the key top forms at least three rack supporting members on a bottom thereof; wherein

the at least three rack supporting members are respectively parallel to corresponding gears and engage with corresponding gears to provide the upward and downward movement for the key top.

17. (New) The gear-type key switch of the keyboard device as claimed in claim 15, wherein the three gears form a triangular shape.

18. (New) The gear-type key switch of the keyboard device as claimed in claim 15, wherein each rack supporting member of the key top forms a restrictive barb on a bottom edge thereof to restrict excessive upward movement of the key top.

19. (New) The gear-type key switch of the keyboard device as claimed in claim 15, wherein each rack supporting member is capable of being divided into at least two racks.

20. (New) The gear-type key switch of the keyboard device as claimed in claim 15, wherein each pair of shafts are arranged face to face corresponding to the length of corresponding gear.

21. (New) The gear-type key switch of the keyboard device as claimed in claim 19,

wherein each shaft defines a gear-receiving hole and an opening with dimension smaller than the gear-receiving hole, and wherein each opposite end of the gear is pressed through the opening into the gear-receiving hole.

22. (New) The gear-type key switch of the keyboard device as claimed in claim 15, the adjacent two shafts of different pairs form an angle about 120 degrees therebetween.

23. (New) The gear-type key switch of the keyboard device as claimed in claim 15, the holder member defines a through hole therein, and wherein the spring member partially protrudes through the through hole to electrically connect with the film circuit board.

24. (New) The gear-type key switch of the keyboard device as claimed in claim 15, the key top forms a post located in a center of an area circumscribed by the three rack supporting members, and wherein the spring member defines a hole to permit the post of the key top to insert for providing the engagement between the key top and the spring member.